FOODS AVAILABLE IN NEW BRUNSWICK SCHOOLS

SURVEY REPORT 1989-90

A COMPARISON OF PROVINCIAL SURVEY DATA

BETWEEN 1981-82 AND 1989-90

New Brunswick

HEALTH PROMOTION & DISEASE PREVENTION UNIT

PUBLIC HEALTH/MEDICAL SERVICES DIVISION
DEPARTMENT OF HEALTH AND COMMUNITY SERVICES

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SUMMARY REPORT

Purpose of the Survey

In order to identify the current trend for the provision of nutritious food at school a survey was undertaken replicating a survey on the status of foods available in New Brunswick schools in 1981-82. The objective was to determine if there had been any improvement in both the type of foods being offered and the availability of food for students in the intervening eight years. The survey included 90% of the schools in New Brunswick.

Student Participation in School Food Programs

From the survey it is estimated that 69% of the students stay at school over the lunch hour. Of these students, 66% are estimated to purchase food items, either a full lunch or a food to supplement a lunch brought from home. In some cases the less nutritious food is chosen to make up the diet for the day while at school.

Availability of School Food Programs

The results of the 1989-90 survey found the number of schools providing food to students has increased. The school lunch programs have increased 10%, school supplement programs have increased 7%, canteens 11% and vending machines 13%. There is now more food available in schools in the Province than there was in 1981-82. While it can be said that generally there is more food accessibility at school there was no movement to improve the availability of breakfast at school. Only 5% of the schools reported breakfast programs available for students. This was a 2% decline from that reported in the 1981-82 survey.

The School Environment -- Factors that Influence Nutritious Food

Student attitude towards nutritious food and the desire to adopt healthy eating habits influences the type of food available in schools. This has resulted in more salad bars being offered. Nutrition education and Nutrition Month campaigns play an important role in assisting students to improve their eating behaviour. The school environment needs to support students' nutritious food choices and healthy eating habits.

Classroom education teaches students about selecting nutritious food according to Canada's Food Guide and Nutrition Month each year provides an opportunity to focus on healthy eating. The food available in schools should support the classroom teaching by providing a selection of nutritious foods low in fat, sugar and salt. Non nutritious food items should be eliminated in order to strengthen the nutrition message. Nutrition promotion has continued in some schools over the years with 67% of the schools reporting that they hold a promotion once a year. The percentage of schools involved in promotions, however, has decreased slightly since 1981-82. Further stimulation of this activity is needed in order to increase the availability of nutritious food in schools.

The sale of non nutritious food items, such as chocolate bars for fund raising purposes, works against the healthy nutrition message. This practice seems to be still prevalent with 46% of the schools carrying out this type of fund raising. However, the rate of increase from 1981-82 was only 2%. As nutrition becomes a public concern some schools are reviewing this activity as a means of fund raising in support of health related activities such as sports.

Nutritional Quality of Food in Schools

School lunch programs:

The main course items were similar in both surveys. Meat and vegetable type meals and fish and chips were the most frequently offered on menus. The third most frequently offered food was hot dogs. Cooked vegetables and salads were 20% more available in 1989-90 than they were in 1981-82 indicating a trend towards selecting more nutritious foods. However, while salads and vegetables were more available so were french fries which increased 37%. There appears to be an attempt to moderate the frequency that french fries are offered, with 35% of the schools restricting the frequency to one or two times a week where as only 23% of the schools did so in the 1981-82. Fruits were offered less often in schools (79%) in 1989-90 than in 1981-82 (95%). However fruit was still the most frequently offered dessert item followed closely by puddings, jello, cakes and pastries.

Canteens:

The food items in canteens were nearly the same in both surveys. Potato chips were the most frequently offered item in school canteens and this frequency increased by 19% from the 1981-82 survey. Milk was the second most offered item in canteens with the availability increasing by 9%. Fruit juice was not available in the canteens in the earlier survey but in 1989-90 was offered in 53% of the canteens. It seems that there are now more canteens with a wider variety of food items. Pop, chocolate bars, and candy were available in 32%, 22% and 19% of the canteens respectively.

Vending Machines:

These machines were not in frequent use in schools in 1981-82 but in the recent survey 31% of the schools had vending machines of which 81% dispensed pop, 30% fruit juice, 18% fruit drink, 9% chips, 8% milk, 7% chocolate bars, 5% candy, 2% fruit. Non nutritious food items seem to be provided frequently.

Provincial Trend

All schools in both surveys were given a numerical score based on availability and nutritious quality of the food provided. The same method was applied in both surveys. The scores made it possible to identify an overall trend across the Province.

Schools that scored in the high range were considered to be providing adequate nutritious food support for students. In 1981-82, 17% of the schools scored in this range while in 1989-90 25% scored at this level. Schools that scored in the mid range required improvement. The 1981-82 survey identified 50% of the schools in this range while the 1989-90 survey found 57%. Schools that scored in the lowest range require major improvements and 33% were found to be in this range in 1981-82 while 18% scored here in the 1989-90 survey.

Conclusion:

It is concluded that in the eight years between surveys there has been some improvement in the availability and nutritional quality of food in schools. The improved trend is seen by the movement on average, of 1% of the schools per year reaching the acceptable score.

There remains a great deal of work to be done to improve the nutritional quality of food and in reducing the amount and availability of high fat foods such as french fries and chips; high sugar items such as cakes, pastries and candy; and food items high in salt such as chips. The schools need to refocus the direction they have taken in providing food at school. This focus should shift from a profit making service to one that improves and promotes a healthy nutrition environment, supporting the educational goals of the health program and enhancing the learning capability of students by meeting their daily nutritional requirements.

SCHOOL FOOD SURVEY 1989-90

I. INTRODUCTION

In the past year, concern was expressed by the New Brunswick Association of Dietitians regarding the lack of policies that govern the type of food being provided in schools in New Brunswick. They had concluded from a small survey of School Boards that there were only one or two School Districts with written policies. The Association was concerned that many schools were selling non nutritious food items, foods that have a high content of sugar, salt and fat. These foods can have a negative influence on the health of the population, resulting in causes of obesity, high blood pressure and chronic diseases, for example heart disease and cancer. They felt that there should be policies in all schools regarding the nutritional quality of the food for school lunch programs, canteens and other sources of food at school. These policies should be directed towards improving the eating habits of students.

The nutritionists in Public Health realized that in order to develop a provincial policy approach, up to date information regarding the food in schools was required. The time was appropriate to investigate the availability of food in schools as they had done in 1981 and 1982. This study had provided a baseline on which any change in the type of food available in schools could be measured. Thus a replication of the survey was carried out in the school year 1989-90. This report indicates the change that has taken place during the intervening eight years.

II. THE SURVEY

The Public Health nurses in each region were responsible to survey the schools they worked with. The nutritionists instructed the nurses in using the survey questionnaire for the collection of information on food provided at schools. The nurses also talked to those involved with food service and obtained menus. The questionnaires were collected and forwarded to Central Office in Fredericton for processing on the main frame computer using the Statistical Package for Social Sciences. Analysis was done by the computer programmer in the Planning and Evaluation Unit and the Senior Nutrition Consultant in the Health Promotion and Disease Prevention Unit.

III. THE QUESTIONNAIRE

The same questionnaire that was used in the 1981-82 survey was implemented with a few additional questions. The added questions were regarding the coldness of milk served in schools, the closeness of a neighborhood store and the possible influence of these stores on food eaten by students during the school day.

The questionnaire collected basic demographic information on the school. A series of questions were asked on the type of services available; whether there was a school lunch program or only a supplement program, breakfast programs, canteens and vending machines which provided foods. Included were questions on the frequency the meal services were available in the school. Other questions identified the kind of food available, and the practices that promoted good nutrition. The questionnaire is appended to this report (Appendix A).

The questionnaire evaluated how nutritious the available food was according to the fat, sugar and salt content expected in the type of food available.

IV. THE SCORING SYSTEM

A scoring system for each school, used in the earlier study was repeated in this survey. Each school received two scores, a positive and a negative score. It was possible to score a maximum of 31 points or a minimum of - 14 points. The score for each school was determined from the difference between the positive score and the negative scores. The questionnaire scoring system and the scores for each school are presented in the Appendix B.

The school scores were placed on a rating scale allowing a comparison to be made with the scores obtained in the 1981-82 study. Individual school scores are listed in Appendix C.

V. RESULTS AND DISCUSSION

The 1989-90 survey included 385 schools, 90% of the schools under the Department of Education. The earlier 1981-82 survey included in addition to those schools under the Department of Education, 3 private schools and 2 special schools.

The school directories from the Department of Education provided information on the number of students in each school. Schools were asked to estimate the percentage of students staying for lunch and buying lunch items on the basis of the school enrolment. It was not possible to determine the actual numbers of students participating in the food programs as records were not available. In most cases, the number participating in buying food at school would vary according to the season of the year. Many more students stay at school the whole day when the weather is poor.

A. Participation:- Student Participation in School Food Programs

Table 1 indicates provincially the number and percentage of students staying at school over lunch and purchasing food items compared to 1981-82.

TABLE 1 STUDENT PARTICIPATION

STUDENT PARTICIPATION	1981-82	1989-90
Number of Schools Reporting % of Total Schools	443 96%	385 90%
Total School Population	149,551	134,592
Estimated Number Staying for Lunch % Estimated	87,321 58%	92,284 69%
Estimated Number Purchasing Food % Estimated	37,047 42%	61,285 66%

The school enrolment in 1989-90 in the province has declined from the 1981-82 school year. However it is interesting to note that about 11% more students are estimated to stay at school over the lunch hour in 1989-90 than in 1981-82. As well there is an estimated difference of 24 percentage points in the number purchasing food items indicating that more students are eating at school and purchasing food than there was eight years ago. These estimates are supported by the reported increase in the number of schools with school lunch programs, lunch supplement programs, canteens and vending machines dispensing food items. Table 2 illustrates this provincial increase.

The number of schools involved in providing food to students has increased in the 1989-90 school year; 12 more schools indicated they now have a lunch program, 6 more schools indicated a supplement program, 16 more schools had canteens and 37 more schools had vending machines.

There has also been more awareness of the negative impact of selling chocolate bars and other foods as a fund raising method with 29 fewer schools using this approach in 1989-90.

It also appears that nutrition promotion campaigns are continuing in schools although fewer schools were involved in 1989-90, the percentage involved reduced by 6%. Many schools seem to rely on the health education program to educate students on nutrition and have not become involved in special Nutrition Month events.

TABLE 2 SCHOOL FOOD PROGRAMS

SCHOOL FOOD PROGRAMS	1981-82	1989-90
School Lunch (daily) % of Schools	208 47%	220 57%
Lunch Supplement % of Schools	148 33%	154 40%
Breakfast % of Schools	32 7%	20 5%
Canteen % of Schools	196 44%	212 55%
Vending Machines % of Schools	82 18%	119 31%
Food Sold for Fund Raising % of Schools	194 44%	165 43%
Nutrition Promotion % of Schools	323 73%	259 67%

B. Special Concerns Influencing Food Purchase in Schools

Cold Milk

There have been concerns that children don't buy the milk at school because the milk is not refrigerated. It was decided to ask this question during the 1989-90 survey. The survey indicated that 77% (297) of the schools were satisfied that the milk was cold enough and the children were drinking it. Four percent or 17 schools indicated that the milk was not cold enough. There clearly is a need to make some arrangements that are more satisfactory for selling cold milk in these schools.

Closeness of Corner Store

It was felt that many students bought food at local stores rather than at the school. It was thought that the type of food available at the local stores would not be very nutritious and that the students would make their lunch from pop and chips. A question was included in the survey to determine how many schools were close to local corner or convenience stores and if this was thought to be an influence on what the students ate.

The survey found that 60% (233) of the schools are close to stores where students could purchase food. However only 26% of the responders thought that this influenced the students' eating habits. A closer study of this issue may be necessary to find out where students obtain the food they eat at lunch or during the school day. This could be done with individual schools at certain grade levels.

Nutritional Quality of Food in Schools

As in the earlier survey, the concern about the type of food served in school lunch programs, canteens and vending machines was an issue. Menus were obtained and reviewed for variety; frequency of menu items; availability of salads and vegetables; and food high in sugar, salt and fat.

Lunch Menus:

The menu items for main course dishes remained similar over the years. There appears to be an attempt to reduce the fat in menus. In some schools, where fried fish and chips would have been on the menu in the earlier study, this item has been replaced by fish sticks, fish burgers and over baked fish and fish cakes--items lower in fat content.

To analyze the main course menu items, the frequency an item appeared on the menu over a three week period for 84 schools was counted. Table 3 provides the rank order of these items from the items most frequently appearing on the menu to the least frequently appearing item.

TABLE 3 FREQUENCY OF MAIN MEAL MENU ITEMS OVER A 3 WEEK PERIOD FOR 84 SCHOOLS

MENU ITEM	RANK ORDER	MENU ITEM	RANK ORDER
Meat & Vegetables	1	Oven Baked Fish	13
Fish & Chips	1	Egg Roll & Rice	14
Spaghetti	2	Sloppy Joes	15
Hot Dogs	3	Croquettes & Potatoes	16
Macaroni	3	Salisbury Steak	17
Pizza	4	Fish Sticks	18
Chicken & Vegetables	5	Chinese Combo	18
Lasagna	6	Ham & Potatoes	19
Pâté Chinois	7	Meat Pie	20
Soup & Sandwich	8	Chili	21
Chicken Stew	9	Fish Burger	22
Hamburgers	10	Chicken Burgers	23
Beef Stew	11	Baked Beans	24
Bologna & Potatoes	12	Hot Chicken Sandwich	25

Other items such as salads and vegetables, type of desserts were reviewed to find out if there had been a change in the frequency schools offered these items. It appears that more cooked vegetables and salads are available in 1989-90 than there were in 1981-82. There also are more french fries being offered, however it seems that more schools are trying to control the frequency of availability by restricting the serving of french fries to 1-2 times per week.

In the recent survey there was a greater variety of desserts in school lunch programs. Desserts with higher sugar and fat content were more frequently included in menus in 1989-90 than they were in 1981-82. Fruit in the 1989-90 survey was not as commonly included as a dessert in school lunch programs. This may be due to the cost of fruit compared to the price of a dessert. A review of the prices charged for these items indicated that the price most commonly charged for either item was 50 cents. Fruit was not cheaper and may not have been as attractive a choice to the student. Students need to have information on healthy food choices to appropriately select a dessert item of equal price. Table 4 makes the comparison of the increased frequency of lunch menu items available in surveyed schools between 1981-82 and 1989-90.

TABLE 4 COMPARISON OF THE PERCENTAGE OF SCHOOLS OFFERING VEGETABLE AND DESSERT ITEMS BETWEEN 1981-82 AND 1989-90

Food Item	1981-82	1989-90
Cooked Vegetables	61%	81%
French Fries	36%	73%
French Fries 1-2x/week	23%	35%
Salads	45%	69%
Fruit	95%	79%
Pudding	51%	76%
Jello	54%	75%
Cakes & Pastries	57%	75%
Ice Cream	39%	49%
Yogurt	25%	48%
Iced Doughnuts	17%	43%
Sundaes	5%	15%

Canteens in Schools:

In the 1989-90 survey more schools reported having canteens. The food items available from these canteens seemed to be similar to those in the 1981-82 survey. Chips were most frequently available in canteens in 1981-82, with 53% reporting they sold this item. In the 1989-90 survey chips had increased in availability with 72% of the canteens reporting that they sold this item. Table 5 indicates the percentage of school canteens reporting item for sale in both surveys. It is notable to see the increase in all items with the exception of gum.

TABLE 5 FOOD ITEMS AVAILABLE IN SCHOOL CANTEENS

Food Item	1981-82	1989-90
Chips	53%	72%
White Milk	51%	60%
Fruit Juice	---	53%
Chocolate Milk	30%	44%
Cheese & Crackers	7%	40%
Ice Cream	23%	39%
Fruit	33%	36%
Nuts	33%	35%
Fruit Drinks	29%	33%
Pop	20%	32%
Chocolate Bars	18%	22%
Cough Drops	5%	22%
Candy	10%	19%
Peanut Butter Snacks	---	16%
Raisins	1%	15%
Minisips	8%	14%
Gum	7%	5%

Vending Machines:

The number of vending machines in schools increased 13 percentage points from the 1981-82 survey. In the earlier survey these machines did not seem to play a significant role in making food available to students, and the information on the type of foods sold by this method was not recorded. With the increased number of vending machines it was important to look at what items were sold to students in this manner. Table 6 indicates the percentage of schools with vending machines selling the items listed. It is noted that pop is the most common item sold through vending machines. Vending machines do not seem to be a major source of food items.

TABLE 6 FOOD ITEMS AVAILABLE IN VENDING MACHINES

Food Item	1989-90
Pop	81%
Fruit Juice	30%
Fruit Drinks	18%
Chips	9%
White Milk	8%
Chocolate Bars	7%
Chocolate Milk	6%
Candy	5%
Gum	2%
Fruit	2%
Other	2%

Breakfast Programs:

In the 1981-82 survey 32 schools (7%) offered breakfast at school. The recent survey indicates that this number is now only 20 schools (5%). The reason for dropping these programs is not known.

Food Sold For Fund Raising:

This issue has been the focus of much attention over the past eight years. Schools were provided with a suggestion booklet of fund raising ideas that did not include food titled "Nutrition For Sale." The chocolate bar sales however have remained popular.

The 1989-90 survey has indicated that fewer schools are using this method of fund raising. The number has dropped from 194 schools to 165 schools. It is hoped that this is a growing awareness of the problem of using non nutritious chocolate bars as a fund raising item to support healthy sports activities. It appears that there is still more work to be done to change the fund raising approaches.

C. SCHOOL RATINGS

Each school received a rating score which was plotted on a numerical scale. The top scores, in the range of 14 to 31, were considered to represent acceptable food service and provide a reasonable opportunity for the selection of nutritious food during the school day. The mid range scores of 0 to 13, require schools to review their services and the selection of foods being provided. They may need to introduce a program if they do not have one now or they may need to improve the quality of what they provide to students. The schools that scored in the -1 to -10 range should take immediate action to correct the food choices they have available.

To illustrate the difference in the type of foods offered and the school food service available, a profile of the high and low scoring schools is presented. The profile of a school that received the top score of 29 in the 1989-90 survey is compared with a school with the low score of -10. Table 7 presents this comparison.

- Comparison of school scores between 1981-82 and 1989-90 surveys

The question of how schools have changed in making nutritious food available was to be answered in the 1989-90 survey. Comparison of school scores between the two periods indicates that there has been improvement. In 1981-82, 17% of the schools scored in the acceptable range of 14 to 31, while in 1989-90, 25% of the schools scored in this range. There were more schools scoring in the mid range of 0 to 13 points in the recent survey. Fifty percent of the schools scored in this range in 1981-82, while 57% scored in this range in the recent survey.

Fewer schools scored in the low range of -1 to -10 in 1989-90. In 1981-82, 33% of the schools had scored in this range while in 1989-90 the percentage dropped to 18%. Figure 1 illustrates these percentages in pie shaped graphs.

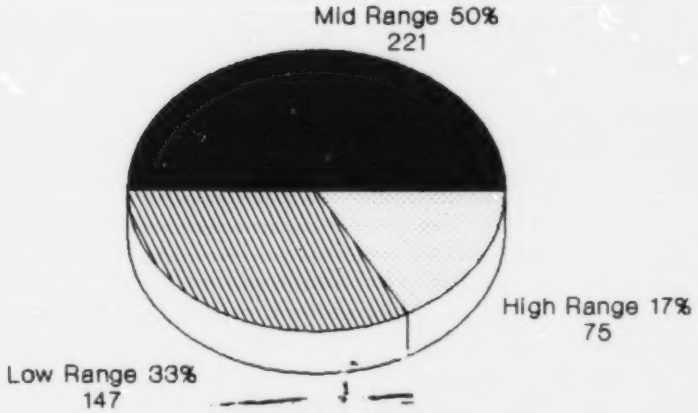
While the trend is towards an improvement in nutritious foods available in schools, there is still much progress to be made to reach an acceptable standard. It is thought that a provincial school food policy would give impetus to school boards to improve food in schools. The contractors and volunteers would improve the type of food they provide students if there was such a policy to lead the development of local policy. This would result in increased nutritious food choices being made available to students. Items such as fried foods, desserts high in sugar and non nutritious food would be eliminated. By the year 2000, at least 70% of the schools should be scoring in the "acceptable" range (14 to 31).

TABLE 7 PROFILE OF HIGH SCORING AND LOW SCORING SCHOOLS

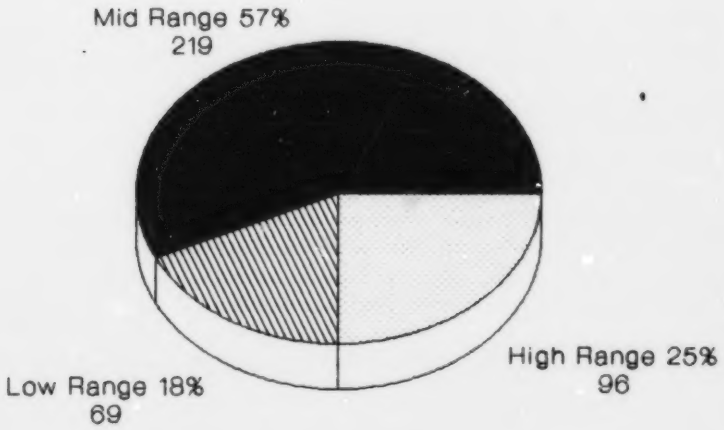
	School With High Score (29)	School With Low Score (-10)
Lunch Program Contract	Provided Daily Volunteers	Provided Daily Agency
Meal Type	Main Course - Usual	Main Course - Usual
Vegetables	Salads - Daily Cooked Vegetables - Daily No French Fries No Deep Fried Foods	No Salads Cooked Vegetables - 2-3x/week French Fries Daily Deep Fried Foods Daily
Dessert	Fruit, Pudding, Ice Cream Yogurt, Muffin	Fruit, Pudding, Ice Cream, Jello, Yogurt, Iced Donut
Beverages	White Milk, Fruit Juice	White Milk, Chocolate Milk, Juice, Fruit Drink, Minisips
Lunch Supplement	Yes - Daily	No
Breakfast	No	Yes - Muffin, donut, Juice, Milk
Canteen	Yes - White Milk, Fruit Juice, Cheese & Crackers, Peanut Butter Snack, Raisins, Ice Cream Bars, Fruit	No
Vending Machines	No	Yes - Non Nutritious Items
Nutrition Promotion	Yes	No

Figure I

COMPARISON OF SCHOOL SCORES FROM 1981/82 AND 1989/90 SURVEYS



1981-1982



1989-1990

- Individual School Scores

The scores obtained by each school are listed in Appendix C. The schools that obtained the high score of 29 in the 1989-90 survey were in School District 12, Notre Dame (210 students) and Camille Voutour (250 students). The number estimated as staying for lunch in both schools was 200. These schools should be congratulated for their efforts.

- Mean Scores For School Districts -- Comparison 1981-82/1989-90

School Boards set policies for the schools in their districts, therefore they have a major role to play in improving the school food in each school. How do the districts rate? The mean scores determined for school districts in each survey are presented in Table 8. School districts created since 1982 are not included in this table since no comparison data was available.

TABLE 8 SCHOOL DISTRICT MEAN SCORES 1981-82/1989-90

District	1981-82	1989-90	District	1981-82	1989-90
1	9.6	6.4	24	1.6	3.0
5	7.5	18.6	25	-3.6	1.7
6	1.3	10.0	26	0.3	3.1
7	7.0	11.2	27	4.5	4.5
8	9.4	11.2	28	3.1	5.5
9	-5.3	6.6	29	3.1	5.2
10	7.2	0.2	30	1.0	5.5
12	12.0	19.8	31	7.6	6.5
13	11.5	13.6	32	7.6	11.3
14	12.0	6.8	33	13.8	10.0
15	3.7	8.5	35	6.2	6.5
16	3.3	5.7	36	3.0	12.0
17	-1.6	13.0	37	1.6	11.0
18	2.6	0	38	6.2	6.5
19	-0.6	4.0	39	9.1	11.4
20	1.9	1.7	40	3.3	13.3
21	3.0	4.4	41	7.2	15.9
22	9.5	8.5	42	4.8	12.2
23	7.0	5.0	50	-4.0	5.0

This data has been prepared in graph form and appears in Appendix D.

VI. CONCLUSION

The School food survey undertaken during the school year 1989-90 has identified a trend towards improvement in nutritious food available in schools. There is a need to do more work to bring more schools up to the acceptable level. The survey has identified those schools and school districts that require attention. It is expected that school food policies in each school district will become a reality that will positively improve the school district scores in the future providing evidence that there is better nutrition available to students in the schools of New Brunswick.

The schools must become aware of the need to reinforce the nutrition education that they provide in the classroom with a healthy environment providing nutritious food during the school day. While school lunch programs are provided as a service to students and their parents, it is important that this service model nutritious food.

Public Health Nutritionists are available to support the school food program and provide consulting service to school boards in order that a new direction towards healthy eating can be initiated. School boards with the help of the nutritionists will be able to monitor their progress towards improving the school food in their districts.

The school district profiles have been divided into the Public Health Regions and are presented in Appendix E. This information will assist Public Health regions to focus on areas of greatest need for support.

VII. RECOMMENDATION

It is recommended that renewed effort be made to improve nutritious food choices in schools in accordance with Canada's Guidelines for Healthy Eating.

APPENDICES

Appendix A School Food Service Questionnaire

Appendix B Scoring the Questionnaire

Appendix C School Scores According to School Districts

Appendix D Graphs of School District Mean Scores

Appendix E School District Profiles According to Public Health Regions

Appendix A

Appendix A.

SCHOOL FOOD SERVICE QUESTIONNAIRE

NAME OF NURSE:_____ DATE:_____
NAME OF SCHOOL:_____ SCHOOL DISTRICT:_____
PRINCIPAL: _____ SCHOOL POPULATION:_____
NO. OF STUDENTS STAYING FOR LUNCH:_____
NO. OF STUDENTS BUYING LUNCH ITEMS: _____

---

1. Is there a school lunch program? _____ Yes ____ No
   If yes, a) indicate how often: _____ Daily ____ 1/week
   _____ 2/week ____3/week
   _____ 4/week
   b) indicate who provides _____ volunteers
   the lunch program _____ teachers
   _____ contract company
   (indicate name)_____
   _____ private caterer

2. Is there a lunch supplement program? _____ Yes _____ No
   If yes, a) indicate items offered _____
   b) indicate how often: _____ Daily _____ 1day/week
   _____ 2days/week ____ 3days/week
   _____ 4days/week

3. Is there a breakfast program? _____ Yes _____ No
   If yes, indicate items offered: _____

4. Is there a canteen in the school? _____ Yes _____ No
   If yes, indicate food items sold:
   ____chocolate milk____white milk___pop____ bars
   ____chips____candy____gum____minisips____cough drops
   ____fruit juice____cheese/cracker snacks____ P.B.snacks
   ___ raisins____ice cream bars_____fruit drinks____ nuts
   ___ fruit ____other (please indicate items)

5. Is there a vending machine in the school? _____ Yes _____ No
   If yes, indicate food items sold:
   ____chocolate milk____white milk____pop____bars___chips
   ____candy___gum____fruit____fruit drinks____fruit juice
   ____other (Please indicate items)_____
   _____

6. Are food items sold for fund raising purposes? _____Yes____No
   If yes, indicate food item(s) sold:_____
   _____

7. Is milk served in the school cold enough? _____Yes ___No

8. Is there a corner store close to your school? _____Yes ___No
   If yes, to the best of your knowledge, does
   this affect the eating habits of the students?____Yes ____No

9. Is there a nutrition promotion carried out in this school each year? ____Yes ____No

10. SCHOOL LUNCH PROGRAM
Check the appropriate items to indicate those foods included on the menu:

a) Dessert choices daily: ___fruit ___pudding___cakes & pastries
___plain ice cream____ice cream sundaes____jello___yogurt
___iced doughnuts___none____other(please indicate)_____
_____

b) Vegetable choices daily:____salads____cooked vegetables
____ other (please specify) _____

c) Beverages included daily:___white milk____chocolate milk
____pure juices____fruit drinks____minisips.

d) Are French fries served? ____Yes____No
If yes, are these served: ____Daily____1-2 times/week
____other (please indicate)
_____
If yes, are French fries served only as part of a whole meal? ____Yes____No

e) Are deep fried food served daily? ____Yes____No
If yes, indicate type of food served:
____fish____onions____other
(please indicate)_____

f) Indicate main course items offered:_____
_____

Appendix B

SCORING THE QUESTIONNAIRE

1. Is there a school lunch program? +1 yes -1 no
   If yes, indicate how often: +5 daily +1 1/week +2 2/week
   +3 3/week +4 4/week
   If yes, indicate who provides lunch program: ___ volunteers
   ___ teachers ___ contract company (indicate name _____)
   ___ private caterer

2. Is there a lunch supplement program +1 yes -1 no
   If yes, indicate terms offered _____
   If yes, indicate how often +5 daily +1 1 day/week
   +2 2 days/week +3 3 days/week +4 4 days/week

3. Is there a breakfast supplement program +1 yes -1 no
   If yes, indicate items offered _____

4. Is there a canteen in the school? +1 yes -1 no
   If yes, indicate food items sold: +1 chocolate milk
   +2 white milk -1 pop -1 bars -1 chips -1 gum
   -1 candy -1 minisips -1 cough drops +1 ice cream bars
   -1 fruit drinks +1 nuts +1 fruit
   ___ other (please indicate items: _____)

5. Is there a vending machine in the school? +1 yes -1 no
   If yes, indicate food items sold: +1 chocolate milk
   +2 white milk -1 pop -1 bars -1 candy -1 gum
   +1 fruit -1 fruit drinks
   ___ other (please indicate items: _____)

6. Are food items sold for fund raising purposes? -1 yes +1 no
   If yes, indicate food item sold: FRUIT NUTS CHOC. BARS
   _____ OTHER

Check the appropriate items to indicate those foods included on the menu:

A. Dessert choices daily: +1 fruit ___ pudding -1 cakes & pastries
   +1 plain ice cream -1 ice cream sundaes -1 jello +1 yogurt
   -1 ice doughnuts ___ none ___ other (please indicate _____
   _____)

B. Vegetable choices daily: +1 salads +1 cooked vegetables
   -1 none other (please indicate _____)

C. Beverages included daily: +2 white milk +1 chocolate milk
   +1 pure juice -1 fruit drinks -1 mini sips

D. Are french fries served? -1 yes +1 no
   If yes, are these served -5 daily -3 1-2 times/week
   ___ other (please indicate _____)
   If yes, are french fries served only as part of a whole meal?
   +1 yes -1 no

E. Are deep fried foods served daily? -5 yes +5 no
   If yes, indicate type of food served ___ fish ___ onions
   ___ other (please indicate _____)

Indicate main course items offered: _____

7. Is there a nutrition promotion carried out in this school each year
   +1 yes -1 no

SCHOOL SCORE + ___

- ___

Appendix C

SCHOOL FOOD SERVICE QUESTIONAIRE

SCHOOL NAME	SCHOOL NO	TOTAL SCORE	
0			
MRG-MARTIN	101	9	0
MARIE-GAETANE	109	4	0
ELEM DE KEDGWICK	117	-5	0
AU SAVOIE	118	10	0
ST JEAN BAPTISTE	119	14	0
OLA LEGERE	504	22	0
LORETTE-DOIRON	508	16	0
L'ESCALE DES JEUNES	513	19	0
LE MAILLON	517	25	0
LA NACELLE	535	13	0
LOUIS-MAILLOUX	539	11	0
MARGUERITE-BOURGEOYS	540	21	0
TERRE DES JEUNES	541	22	0
MARIE-ESTHER	601	21	0
ELEMENTAIRE DE SHIPP	602	13	0
SOEUR-SAINT-ALEXANDR	604	8	0
ECOLE LA RIVIERE	609	15	0
GILBERT FINN	612	-3	0
L'AMITIE	613	10	0
LA VAGUE	614	-3	0
SECONDAIRE 1ER CYCLE	624	15	0
L'ETINCELLE	625	11	0
L'ETOILE DU NORD	626	16	0
CENTRALE DE SAINT	702	11	0
L'ESCALADE	711	6	0
LA PASSERELLE	714	21	0
LA-RUCHE	719	-5	0
LE-TREMPLIN	720	21	0
LA-SOURCE	725	16	0
HAUT-SHEILA-CENTRALE	727	-3	0
L'AMITIE	736	8	0
ECOLE ELEMENTAIRE DE	737	9	0
PONT-LAFRANCE	740	18	0
MGR.ARTHUR GALLIEN	742	2	0
ECOLE RENE-CHOUINARD	752	6	0
W.-ARTHUR LOSIER	760	15	0

SCHOOL NAME	SCHOOL NO	TOTAL SCORE	
LA-RENCONTRE-DE-NEGU	761	15	0
LA VILLA-DES-AMIS	762	17	0
TABUSINTAC	802	9	0
HARKINS JUNIOR HIGH	812	13	0
NORTH AND SOUTH ESK	825	-1	0
CROFT	856	23	0
GRETNA GREEN ELEMENT	858	12	0
NORTH AND SOUTH ESK	859	11	0
DOAKTOWN CONSOL	901	-3	0
DOAKTOWN PRIMARY	903	7	0
UPPER MIRAMICHI REGI	904	16	0
UPPER MIRAMICHI	905	0	0
LOGGIEVILLE ELEMENTA	1010	1	0
NELSON RURAL SCHOOL	1017	9	0
ST.ANDREWS ELEMENTAR	1018	1	0
JAMES M.HILL MEMORIA	1020	-2	0
DR.LOSIER JR.HIGH	1025	-8	0
DR-MARGUERITE-MICHAU	1202	14	0
BLANCHE-BOURGEOIS	1206	26	0
MGR-LEONARD-LEGER	1207	22	0
NOTRE DAME	1213	29	0
CALIXTE-F.-SAVOIE	1215	20	0
DONAT-MAILLET	1216	11	0
CAMILLE-VAUTOUR	1219	29	0
SAINTE-MARIE	1222	15	0
SAINT-PAUL	1224	11	0
LEGEREVILLE	1225	13	0
CLEMENT CORMIER	1226	28	0
ALBERT-BRIDEAU	1306	20	0
JOSEPH POIRIER	1310	10	0
MGR-FRANCOIS-BOURGEO	1315	19	0
CENTRALE DE SHEDIAC	1325	15	0
LOUIS J ROBICHAUD	1331	12	0
BEAUSEJOUR	1333	17	0
CHAMPLAIN	1334	25	0
SAINTE-THERESE	1335	5	0
SACRE-COEUR	1336	17	0
ESSEX	1337	-2	0
NOTRE DAME DE LORETT	1339	20	0

SCHOOL NAME	SCHOOL NO	TOTAL SCORE	
ABBEY-LANDRY	1340	-4	0
COLLEGE BRIDGE	1341	15	0
MEMRAMCOOK-EST	1343	12	0
PRE-D'EN-HAUT	1347	16	0
AMIRAULT	1348	23	0
SAINTE-BENARDETT	1349	11	0
SAINT-HENRI	1350	17	0
VANIER	1352	16	0
MATHIEU-MARTIN	1355	15	0
DORCHESTER CONSOLIDA	1401	-1	0
MARSHVIEW MIDDLE	1402	19	0
TANTRAMAR HIGH	1411	-4	0
PORT ELGIN JUNIOR	1412	-4	0
PORT ELGIN ELEMENTAR	1416	23	0
SALEM ELEMENTARY	1417	8	0
BEAVERBROOK	1503	2	0
BESSBOROUGTH	1504	-1	0
BIRCHMOUNT	1505	3	0
EAST DIEPPE	1511	4	0
FOREST GLEN	1514	13	0
GUNNINGSVILLE	1516	14	0
HARRISON TRIMBLE	1517	14	0
HILLCREST	1519	1	0
LOWER COVERDALE	1527	21	0
MAGNETIC HILL	1528	5	0
MONCTON HIGH	1539	5	0
MOUNTAIN VIEW	1541	8	0
POINT DU CHENE	1544	15	0
QUEEN ELIZABETH	1547	1	0
RIVERVIEW JUNIOR HIG	1549	4	0
FRANK L. BOWSER	1550	21	0
RIVERVIEW WEST	1551	21	0
SHEDIAC CAPE	1553	15	0
SUNNY BRAE	1559	13	0
UPLANDS	1560	13	0
CLAUDE TAYLOR	1567	25	0
ROCKAWAY	1568	-1	0
DR.L. BERNICE MACNAU	1569	0	0
RIVERVIEW HIGH	1570	-9	0

SCHOOL NAME	SCHOOL NO	TOTAL SCORE	
LEWISVILLE JUNIOR HI	1571	7	0
ARNOLD MCLEOD ELEM	1572	20	0
EDITH CAVELL	1573	7	0
ELGIN RURAL CONS	1601	8	0
HAVELOCK JUNIOR HIGH	1602	-4	0
HAVELOCK ELEMENTARY	1603	-4	0
PETITCODIAC ELEMENTA	1605	15	0
PETITCODIAC PRIMARY	1606	12	0
SALISBURY ELEMENTARY	1607	8	0
SALISBURY MIDDLE	1609	3	0
JMA ARMSTRONG HIGH	1610	8	0
ALMA CONSOLIDATED	1701	22	0
CALEDONIA REGIONAL H	1702	-2	0
HILLSBOROUGH ELEMENT	1703	-4	0
RIVERSIDE CONSOL	1704	19	0
NORTON ELEMENTARY	1811	1	0
SUSSEX JUNIOR HIGH	1815	6	0
SUSSEX ELEMENTARY	1817	-2	0
SUSSEX REGIONAL HIGH	1818	-6	0
SUSSEX CORNER	1819	1	0
HAMPTON JUNIOR HIGH	1921	8	0
MACDONALD CONSOL	1925	13	0
ROTHESAY ELEMENTARY	1927	3	0
ROTHESAY JUNIOR HIGH	1928	3	0
HARRY MILLER JUNIOR	1929	9	0
FAIRVALE	1930	7	0
KENNEBECASIS PARK EL	1931	5	0
QUISPAMSIS ELEMENTAR	1932	6	0
BELLEISLE ELEMENTARY	1938	2	0
HAMPTON ELEMENTARY	1939	-3	0
DR.A.T. LEATHERBARRO	1940	2	0
KENNEBECASIS	1941	9	0
ROTHESAY PARK ELEMEN	1942	5	0
LAKEFIELD ELEMENTARY	1943	3	0
HAMMOND RIVER VALLEY	1944	19	0
BELLEISLE REGIONAL H	1945	-3	0
QUISPAMSIS JUNIOR HI	1946	-1	0
BARNHILL MEMORIAL	2003	6	0
BAYVIEW	2004	-4	0

SCHOOL NAME	SCHOOL NO	TOTAL SCORE	
BEACONSFIELD	2005	-6	0
CENTENNIAL	2007	5	0
CHAMPLAIN HEIGHTS	2008	-6	0
CRESCENT VA	2009	1	0
EAST SAINT JOHN	2012	21	0
FOREST HILL INTER	2013	17	0
GLEN FALL	2014	-2	0
INGELWOOD	2016	-2	0
GRANDVIEW AVENUE	2017	1	0
HAVELOCK	2019	-3	0
HAZEN WHITE-ST FRANC	2020	4	0
HOLY TRINITY	2022	-2	0
MORNA HEIGHTS	2023	0	0
LAKEWOOD	2027	0	0
LAKEWOOD HEIGHTS	2028	-5	0
LATIMORE LAKE	2029	8	0
LOCH LOMOND	2030	1	0
LORNE	2031	-1	0
NEW ALBERT	2036	-2	.0
PRINCE CHARLES	2039	-2	0
PRINCESS ELIZABETH	2041	5	0
SAINT JOHN HIGH	2043	-1	0
SEAWOOD	2045	-4	0
SIMONDS JUNIOR HIGH	2046	-7	0
SIMONDS HIGH	2047	-9	0
ST JOSEPHS	2050	2	0
ST MALACHYS MEM	2051	-10	0
ST MARTINS	2052	2	0
ST PATRIC	2053	-5	0
ST PETERS	2055	3	0
ST ROSE	2057	-1	0
ST VINCENTS HIGH	2058	-2	0
M GERALD TEED MEM	2059	-7	0
SAINT JOHN VOCATIONA	2060	2	0
WELSFORD	2061	9	0
WESTFIELD	2062	3	0
WOODLAWN	2064	-4	0
MILLIDGEVILLE NORTH	2065	-7	0
BAYSIDE JUNIOR HIGH	2066	5	0

SCHOOL NAME	SCHOOL NO	TOTAL SCORE	
ST JOHN BAP KING	2067	-3	0
GRAND BAY ELEM	2068	20	0
KETEPEC ELEM	2069	5	0
ISLAND VIEW	2070	24	0
FOREST HILLS ELEM	2071	13	0
RIVER VALLEY JR HIGH	2072	4	0
BROWNS FLAT	2073	15	0
FUNDY SHORES	2074	13	0
BACK BAY	2101	5	0
BLACK'S HARBOUR	2103	3	0
DEER ISLAND	2104	12	0
PENNFIELD ELEM	2107	5	0
POCOLOGAN ELEM	2108	-2	0
ST.GEORGE ELEM	2110	9	0
FUNDY HIGH	2111	-1	0
GRAND MANAN HIGH	2201	-9	0
GRAND MANANA ELEM	2209	-8	0
CAMPOBELLO	2301	7	0
LAWRENCE STATION ELE	2302	1	0
SIR JAMES DUNN	2310	-3	0
VINCENT MASSEY	2311	3	0
MILLTOWN ELEM	2316	6	0
ST STEPHEN ELEM	2336	18	0
ST STEPHEN MIDDLE	2337	9	0
ST STEPHEN HIGH	2338	-1	0
MARY HASSON MEM	2404	11	0
MINTO MEM	2407	-5	0
CAMBRIDGE-NARROWS	2412	9	0
CHIPMAN	2413	5	0
BURTON ELEM	2501	-2	0
GEARY ELEM	2503	4	0
LOWER LINCOLN ELEM	2504	16	0
SUNBURY WEST MID	2505	3	0
ASSINIBOINE AVE ELEM	2506	-5	0
GESNER ST ELEM	2508	-4	0
HUBBARD AVE ELEM	2509	-7	0
SUMMERHILL STREEET E	2510	8	0
HAROLD PETERSON JUNI	2511	7	0
WAASIS RD	2512	3	0

SCHOOL NAME	SCHOOL NO	TOTAL SCORE	
OROMOCTO HIGH	2513	-4	0
FREDERICTON JUNCTION	2514	2	0
TRACY ELEM	2515	-3	0
PATTERSON ELEM	2517	0	0
GAGETOWN	2522	6	0
ALBERT STREET	2601	-3	0
BARKERS POINT	2602	5	0
CONNAUGHT STREET	2604	6	0
DEVON	2605	-1	0
DOUGLAS	2606	5	0
FOREST HILL	2608	4	0
GARDEN CREEK	2609	15	0
KESWICK RIDGE	2611	8	0
KINGSCLEAR	2614	8	0
NEW MARYLAND	2616	-3	0
GEORGE STREET	2619	-2	0
NASHWAAK	2620	9	0
NASHWAAKSIS MEM	2621	2	0
MCADAM AVENUE	2622	8	0
PARK STREET	2623	-1	0
PRIESTMAN STREET	2624	3	0
SAINT DUNSTANS	2625	0	0
SOUTH DEVON	2629	5	0
TAYMOUTH	2630	9	0
ALAXANDER GIBSON)	2631	5	0
MONTGOMEREY	2633	5	0
LIVERPOOL	2634	2	0
FREDÉRICTON HIGH	2635	7	0
NASHWAAKSIS JUNIOR	2636	-5	0
ROYAL ROAD	2638	4	0
HARVEY ELEM	2701	-5	0
MCADAM EAST	2703	6	0
MCADAM COMP	2704	15	0
MCADAM COMP	2704	6	0
HARVEY HIGH	2705	-4	0
NACKAWICK SENIOR	2801	7	0
NACKAWIC	2802	16	0
CANTERBURY HIGH	2803	-4	0
KESWICK VALLEY	2807	-6	0

SCHOOL NAME	SCHOOL NO	TOTAL SCORE	
MILLVILLE ELEM	2808	10	0
NACKAWIC JUNIOR	2811	10	0
WOODSTOCK JUNIOR	2901	-1	0
WOODSTOCK CENTENNIEL	2902	4	0
BROADWAY ELEM	2903	6	0
HARTLAND HIGH	2904	6	0
SOUTHERN CARLETON	2905	13	0
CENTRAL CARLETON ELE	2906	7	0
DEBEC ELEM	2907	14	0
WOODSTOCK HIGH	2908	-7	0
BATH INTER	3001	10	0
BATH ELEM	3002	14	0
BRISTOL ELEM	3004	5	0
CENTREVILL INTER	3005	-4	0
CENTREVILLE ELEM	3006	12	0
FLORENCEVILLE INTER	3008	7	0
FLORENCEVILLE ELEM	3009	9	0
JUNIPER ELEM	3014	14	0
CARLETON NORTH SR HI	3018	-4	0
NEW DENMARK ELEM	3102	2	0
PERTH-ANDOVER INTER	3105	-4	0
SOUTHERN VICTORIA HI	3106	-3	0
ANDOVER ELEM	3107	18	0
AROOSTOCK ELEM	3108	4	0
TOBIQUE VALLEY HIGH	3111	10	0
OXBOW ELEM	3113	9	0
SISSON RIDGE ELEM	3114	8	0
DONALD FRASER ELEM	3122	13	0
MARIE-IMMACULEE	3204	5	0
MGR-LANG	3205	18	0
ACADEMIE NOTRE DAME	3206	18	0
REGIOALE DE SAINT AN	3211	11	0
ECOLE GRANDE-RIVIERE	3215	11	0
ECOLE FERNANDE BEDAR	3216	5	0
POLY THOMAS-ALBERT	3217	9	0
SACRE-COEUR	3218	7	0
CLAIR	3302	8	0
LAC-BAKER	3303	10	0
BAKER-BROOK	3304	7	0

SCHOOL FOOD SERVICE QUESTIONAIRE

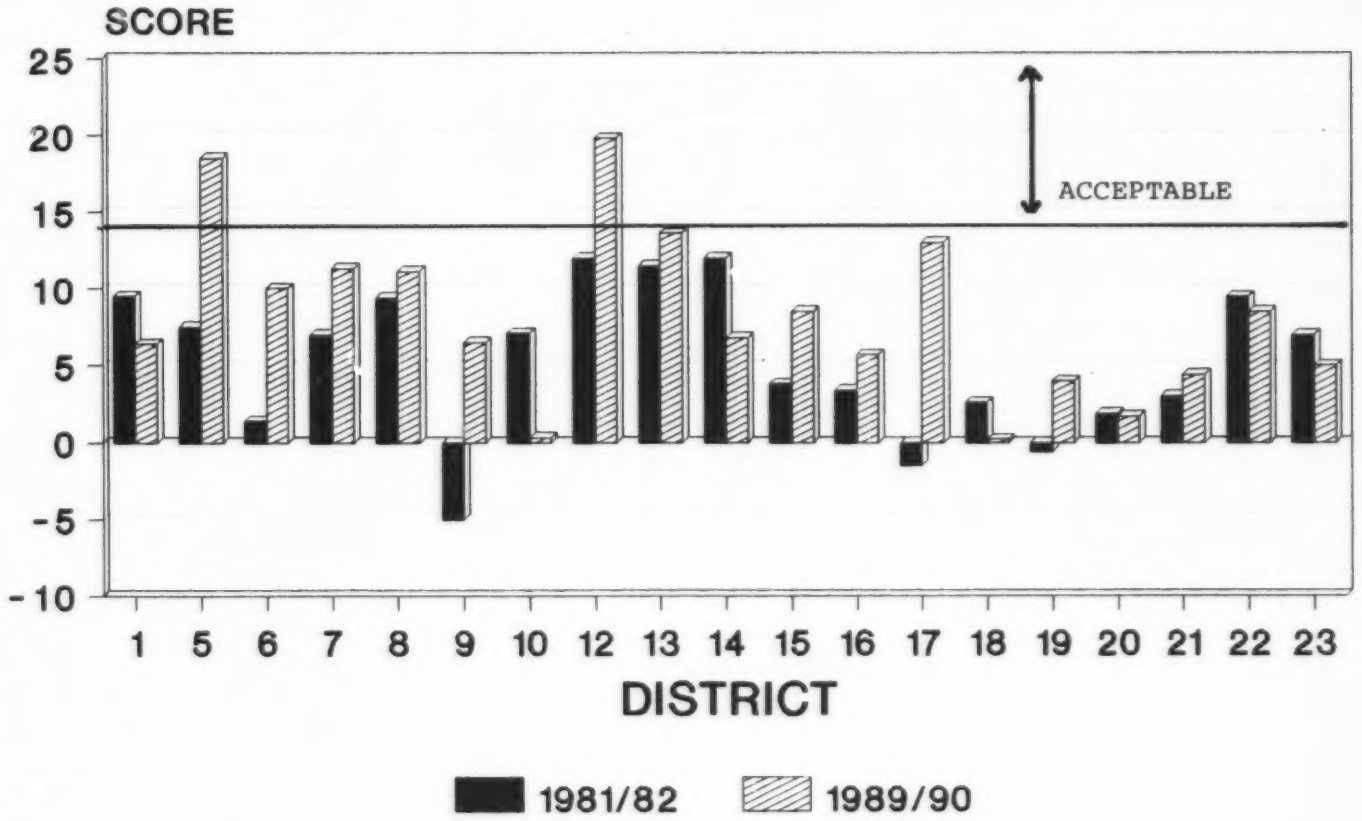
SCHOOL NAME	SCHOOL NO	TOTAL SCORE	
SAINT-HILAIRE	3305	10	0
CORMIER	3307	11	0
NOTRE-DAME	3309	23	0
SAINT PAUL	3310	13	0
SACRE-COEUR	3311	4	0
SAINT-JACQUES	3314	11	0
SAINT JOSEPH	3316	17	0
REG DE ST-BASILE	3317	8	0
IROQOIS	3318	13	0
MGR-MATTHIEU	3320	8	0
SAINTE-ANNE	3321	4	0
CITE-DES-JEUNE	3325	4	0
ERNEST LANG	3326	10	0
ECOLE ELEM MAILLET	3328	7	0
ROYAUME-DES-JEUNES	3506	2	0
DOMAINE	3507	13	0
ECOLE ARTHUR-PINET	3508	17	0
ECOLE DE DUNDEE	3509	0	0
ACADEMIE NOTRE DAME	3511	10	0
AUX-QUATRE-VENTS	3516	16	0
JACQUET RIVER	3601	20	0
LORNE	3603	0	0
L E REINSBOROUGH	3613	14	0
DALHOUSIE REGIONAL H	3615	3	0
VERSANT NORD	3707	13	0
MGR-MELANSON	3710	14	0
SAINT ARTHUR	3714	-5	0
APOLLO-XI	3719	18	0
POLY ROLAND-PEPIN	3722	15	0
LORD BEAVERBROOK	3803	12	0
CAMPBELLTON	3806	7	0
ROBINSONVILLE	3815	12	0
TIDE HEAD	3818	-5	0
SUGARLOAF SR HIGH	3823	0	0
ACADIEVILLE	3901	10	0
REGIONALE DE BAIE ST	3905	18	0
EDGAR-POIRIER	3918	19	0
TELESPHORE-ARSENAULT	3919	18	0
ALDOUANE	3921	8	0

SCHOOL NAME	SCHOOL NO	TOTAL SCORE	
SECOND ASSOMPTION	3924	10	0
PHILIPPE-BOURGEOIS	3938	0	0
POINTE-SAPIN	3944	4	0
RICHIBOUCTOU VILLAGE	3946	20	0
SAINTE CHARLES	3949	10	0
STE MARG-BOURGEOYS	3952	-2	0
MGR-MARCEL F RICHARD	3954	0	0
HARCOURT	4010	12	0
REXTON	4017	18	0
BONAR LAW MEM	4055	10	0
ST FAMILLE	4105	11	0
NOTRE DAME	4106	5	0
ACADEMIE ASSOMPT	4109	21	0
SEJOUR JEUNESSE	4113	24	0
LE TOURNESOL	4114	20	0
L'ABECEDAIRE	4121	13	0
ROBERTVILLE	4125	19	0
NICOLAS-DENYS	4132	11	0
FRANCOIS-X-DAIGLE	4143	19	0
SECONDAIRE NEPISIGUI	4156	26	0
CARREFOUR-ETUDIANT	4157	0	0
LE-DOMAINE	4158	9	0
PLACE-DES-JEUNES	4159	24	0
LA DECOUVERTE	4160	14	0
BATHURST HIGH	4201	10	0
CORONATION PARK ELEM	4202	14	0
SUPERIOR JUNIOR	4207	9	0
SOUTH BARTHURST HIGH	4208	24	0
MARY GOSNELL ELEM	4210	11	0
BELLEDUNE ELEM	4212	7	0
PARKWOOD ELEM	4260	2	0
JOHN CALDWELL	5001	5	0
MSGR BERNIER	5002	0	0
ARC-EN-CIEL	5107	0	0
SAMUEL-DE-CHAMPLAIN	5201	16	0
BEAUSOLEIL	5301	10	0
ST.MARY'S ACADEMY	5401	6	0
MEAN 2284.03	2284.03	7.79	0

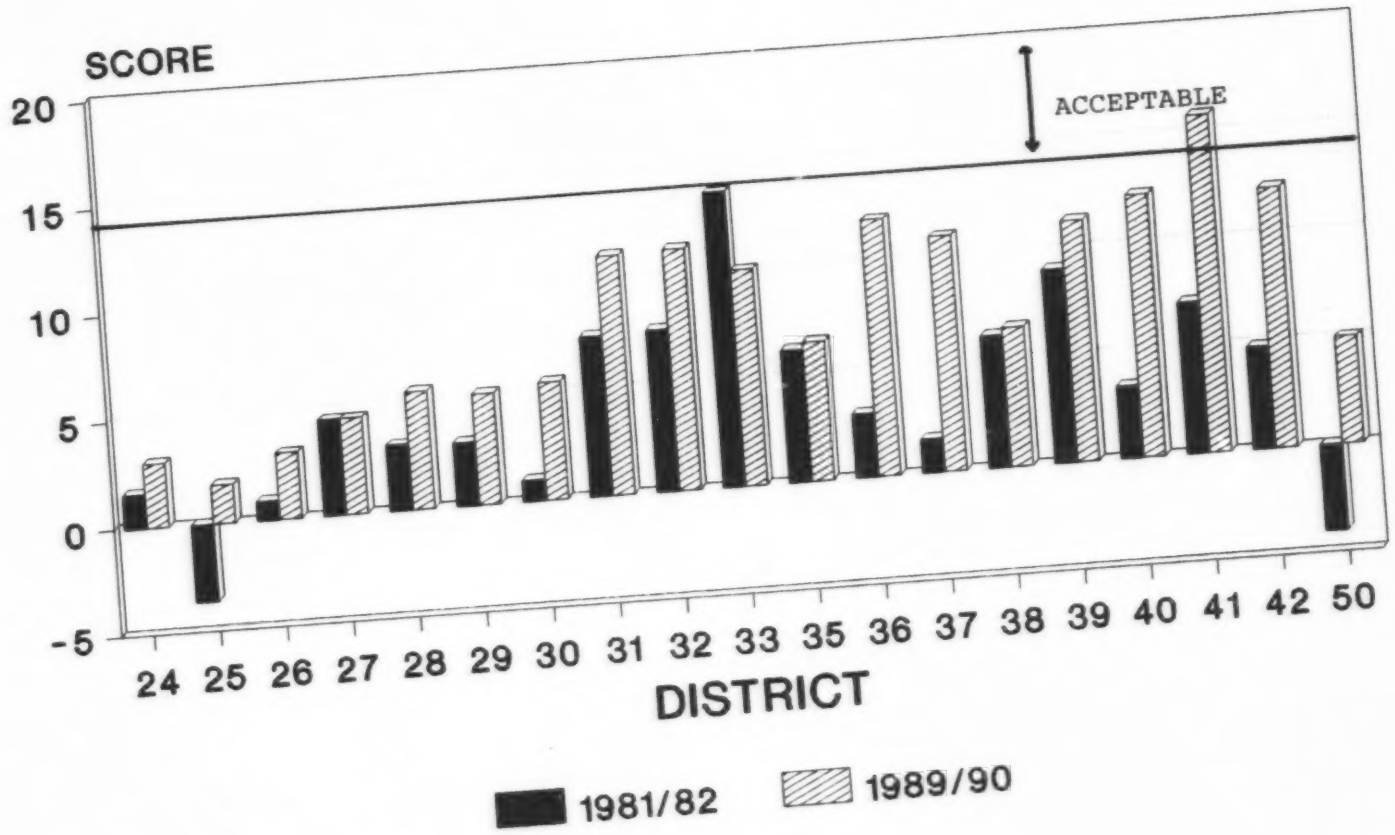
Appendix D

FIGURE 2

SCHOOL DISTRICT MEAN SCORES 1981/82 AND 1989/90



SCHOOL DISTRICT MEAN SCORES 1981/82 AND 1989/90



Appendix E

Appendix E

School District Profiles According to Public Health Regions
Public Health Region I

District	School Population	Number of Schools	% of Schools in Survey	Estimated % Staying	Estimated % Buying	School Scores % High	School Scores % Mid	School Scores % Low
12	2788	11	100%	77%	83%	73%	27%	0%
13	6744	20	77%	82%	57%	65%	25%	10%
14	1836	5	83%	70%	49%	33%	17%	50%
15	12,130	27	100%	47%	26%	35%	54%	11%
16	1769	8	88%	65%	58%	12%	63%	25%
17	443	3	75%	65%	45%	50%	0%	50%
39	2524	12	92%	73%	64%	30%	60%	10%
40	1725	3	100%	40%	71%	33%	67%	0%

Public Health Region II

18	2468	5	71%	77%	67%	0%	60%	40%
19	8127	17	100%	89%	39%	6%	76%	18%
20	13,852	49	98%	72%	82%	11%	40%	49%
21	1524	7	87%	85%	85%	0%	72%	28%
22	409	2	66%	94%	45%	0%	0%	100%
23	2668	8	100%	69%	57%	12%	63%	25%
52	375	1	100%	100%	40%	100%	0%	0%

Public Health Region III

9	819	4	66%	100%	70%	33%	33%	33%
24	890	4	50%	90%	59%	0%	75%	25%
25	3714	15	100%	64%	63%	7%	50%	43%
26	11,477	25	96%	69%	57%	4%	71%	25%
27	1277	4	100%	83%	39%	25%	25%	50%
28	1893	6	100%	79%	42%	17%	50%	33%
29	2970	8	100%	88%	62%	12%	63%	25%
30	2084	9	100%	91%	65%	22%	56%	22%
31	2101	9	100%	82%	48%	11%	67%	22%
51	120	1	25%	42%	40%	0%	100%	0%

District Profiles According to Public Health Region

District	School Population	Number of Schools	% of Schools in Survey	% Staying	Estimated % Buying	School Scores % High	% Mid	% Low
Public Health Region IV								
32	2900	8	100%	74%	80%	25%	75%	0%
33	5861	17	94%	69%	77%	12%	88%	0%
50	525	2	100%	49%	50%	0%	100%	0%
54	183	1	100%	87%	43%	0%	100%	0%
Public Health Region V								
1	1317	5	100%	45%	48%	0%	80%	20%
35	1608	6	100%	68%	68%	33%	67%	0%
36	1501	4	100%	70%	56%	67%	33%	0%
37	1725	5	100%	61%	87%	60%	20%	20%
38	1489	5	100%	71%	58%	0%	75%	25%
Public Health Region VI								
5	2909	8	75%	61%	42%	75%	25%	0%
6	2540	9	82%	50%	92%	40%	40%	20%
7	5217	15	100%	79%	56%	47%	40%	13%
41	5113	14	100%	70%	52%	62%	38%	0%
42	3108	7	70%	57%	72%	28%	72%	0%
Public Health Region VII								
8	2181	6	55%	66%	74%	17%	66%	17%
10	2276	5	55%	68%	74%	0%	60%	40%
53	306	1	100%	100%	57%	0%	100%	0%

References

Health New Brunswick. Status of foods available in New Brunswick schools 1981-82 Survey report. Fredericton, 1982.

Ministére de l'Éducation du Nouveau-Brunswick. Répertorie des écoles du secteur francophone et renseignements statistiques par école. 1989-90, Fredericton, 1990.

New Brunswick Department of Education. Statistical Information New Brunswick Anglophone School Districts. Fredericton, 1990.

New Brunswick Department of Health and Community Services, Nutrition For Sale. Fredericton, 1984.